SPYWOLF

Security Audit Report

DRIVE CRYPTO
DRIVE TO EARN

Completed on
June 16, 2022

MADE IN USA 🇺🇸

OVERVIEW

This audit has been prepared for **Drive Crypto** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✔ Contract's source code
- ✔ Owners' wallets
- ✔ Tokenomics
- ✔ Team transparency and goals
- ✔ Website's age, code, security and UX
- ✔ Whitepaper and roadmap
- ✔ Social media & online presence

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

– SPYWOLF Team –

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Drive Crypto

PROJECT DESCRIPTION

According to their whitepaper:

DRIVE CRYPTO will be web3 mobility app developed based on DRIVE TO EARN concept, gathering GameFI/SocialFi. The users can fit themselves with Cars' NFTS - electric cars and Batteries' NFTS - electric power.

Each Car NTF will be unique and rare as they are one edition only and there won't be two of a kind. Cars NFT can be used not only on DRIVE2EARN APP but also on Racing GameFi mode, competing with other users and players - in 'need for speed' way.

Best three racers will get rewards on $DriveCrypto.

Release Date: July 14, 2022

Category: Drive to earn

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CONTRACT INFO

Token Name
Drive Crypto

Symbol
$DRIVECRYPTO

Contract Address
0xFc6A4fA26ac4d4988b7afb4784be0285C7aDB641

Network
Binance Smart Chain

Language
Solidity

Deployment Date
July 14, 2022

Verified?
Yes

Total Supply
1,000,000,000

Status
Not launched

TAXES

Buy Tax
7%

Sell Tax
10%

*Taxes can be changed in future

Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

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CURRENT STATS

(As of June 16, 2022)

Liquidity

Not added yet

Burn

No burnt tokens

Status:
Not Launched!

MaxTxAmount
10,000,000

No additional Info

LP Address(es)

Liquidity not added yet

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TOKEN TRANSFERS STATS

Transfer Count	1
Uniq Senders	1
Uniq Receivers	1
Total Amount	1000000000 $DRIVECRYPTO
Median Transfer Amount	1000000000 $DRIVECRYPTO
Average Transfer Amount	1000000000 $DRIVECRYPTO
First transfer date	2022-06-14
Last transfer date	2022-06-14
Days token transferred	1

SMART CONTRACT STATS

Calls Count	1
External calls	1
Internal calls	0
Transactions count	1
Uniq Callers	1
Days contract called	1
Last transaction time	2022-06-14 00:46:33 UTC
Created	2022-06-14 00:46:33 UTC
Create TX	0xbf4cb8a701861e6e0c5611272ead02fb10352 766a9d3283b96638a00d5409e57
Creator	0xe2abdbc56ed4db47f7ee255e6e0b96997 a66804f

FEATURED WALLETS

Owner address	0xE2aBdbC56eD4dB47f7eE255e6E0B96997A66804F
Administrative wallet	0xD005D6b61fd26d9e675f9d4FFE72aFCdf03B0900
Internal fund wallet	0xc25438B734865ecc68b2B5cAB39a4A0D53FEf7d7
LP address	**Liquidity not added yet**

TOP 3 UNLOCKED WALLETS

1

100% Same as owner

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VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed

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THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

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FOUND THREATS

⚠️ Medium Risk

Owner can set max transaction limit, but cannot lower it than 0.001% of total supply.

```
function setMaxTxAmount(uint256 maxTxAmount) public isFinancial {
    require(maxTxAmount >= maxSupply / 10000,
    "Amount must be bigger then 0.01% tokens"); // 10000 tokens
    _maxTxAmount = maxTxAmount;
}
```

Owner can change _minAmountToAutoSwap and pausedSwapFee state.

When selling amount is higher than _minAmountToAutoSwap and pausedSwapFee is set to false, selling fails. If min amount to swap is set to 0, this will lead to inability to sell.

```
function setMinAmountToAutoSwap(uint256 amount) public isFinancial {
    _minAmountToAutoSwap = amount;
}
function setPausedSwapFee(bool state) external isAdmin {
    pausedSwapFee = state;
}
```

- Recommendation:
  - Considered as good max transaction limitation practice is that max transaction amount not to be lower than 0.1% of total supply, because if the liquidity is low, lower amounts can be neglible.

08-

FOUND THREATS

⚠️ Medium Risk

No matter what values are for fees, it always take 7% fees from buys and 10% from sells.

```
function setSpecialWalletFeeOnSend(address target, uint administrative,
 uint internalFund, uint reward, uint burnFee) public isFinancial {
    return setSpecialWallet(target, true, administrative, internalFund, reward, burnFee);
}
function setSpecialWalletFeeOnReceive(address target, uint administrative,
 uint internalFund, uint reward, uint burnFee) public isFinancial {
    return setSpecialWallet(target, false, administrative, internalFund, reward, burnFee);
}
function setContractFees(uint administrative, uint internalFund,
 uint rewardFee, uint burnFee) public isFinancial {
    feeAdministrativeWallet = administrative;
    feeInternalFundWallet = internalFund;
    feeReward = rewardFee;
    feeBurn = burnFee;
    require(getFeeTotal() <= maxTotalFee,
     "All rates and fee together must be equal or lower than 16%");
}
```

- Recommendation:
  - Good fees practice is buy+sell fees combined not to exceed 25%.

08-B

⚠️ Medium Risk

Owner can change withdraw time without limitation, make it impossible to claim rewards if the time is set too high.

```
function setRewardWithdrawWaitTime(uint valueInSeconds) external isAdmin {
    rewardWithdrawWaitTime = valueInSeconds;
}

function withdraw(address wallet) external {
    require(holderMap[wallet].receivedAt + rewardWithdrawWaitTime < block.timestamp);
    calculateDistribution(wallet, holderMap[wallet].amountToken, stakePerShare, stakePrecision);
    uint amountToTransfer = holderMap[wallet].pendingReceive;
    holderMap[wallet].pendingReceive = 0;
    holderMap[wallet].totalReceived += amountToTransfer;
    holderMap[wallet].receivedAt = block.timestamp;
    tokenTransfer(BUSD, wallet, amountToTransfer);
    emit RewardWithdraw(wallet, amountToTransfer);
}
```

Owner can disable rewards.

```
function setDisabledReward(bool state) external isAdmin {
    disabledReward = state;
}
```

- Recommendation:
  - Good practice concerning rewards claim from staking contracts, is to set reasonable time limit on restrictions.

08-

GOOD PRACTICES

1. Consider fundamental tradeoffs

2. Be attentive to blockchain properties

3. Ensure careful rollouts

4. Keep contracts simple

5. Stay up to date and track development

Drive Crypto
GOOD PRACTICES FOUND

✔ The owner cannot mint new tokens after deployment

✔ The owner cannot stop or pause the contract

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*The following tokenomics are based on the project's whitepaper and/or website:

- 10% - Public sale
- 7% - Private sale
- 30% - Drive2Earn rewards
- 12% - Recharge stations
- 12% - Team
- 4% - Staking

- 15% - Marketing
- 2% - Advantages club
- 2% - Special prizes
- 0.5% - Liquidity pool
- 0.5% - Airdrop
- 5% - LP reserve fund

Token Distribution

- Public sale
- Private sale
- Drive2Earn rewards
- Recharging stations
- Team
- Staking
- Marketing
- Advantages club
- Special prizes
- Liquidity pool
- Airdrop
- LP reserve fund

5,0%
10,0%
7,0%
30,0%
12,0%
12,0%
4,0%
15,0%
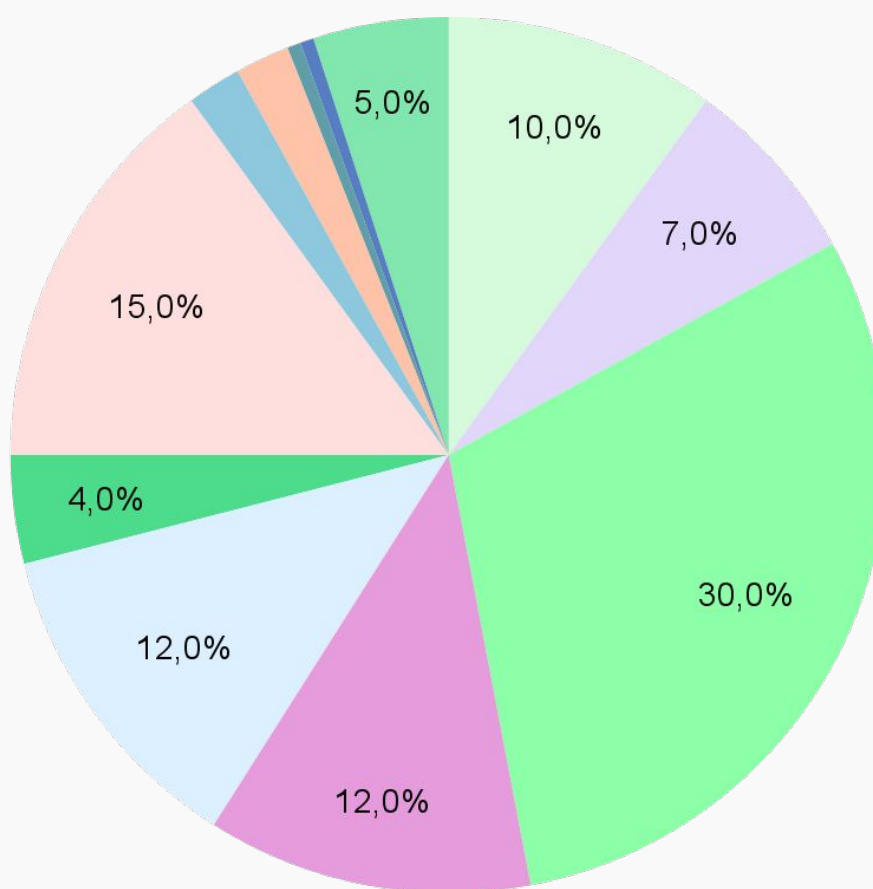
THE TEAM

⚠️ The team is annonymous

KYC INFORMATION

⚠️ No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.

KYC
ERTIFICAT

ISSUED ON
MAY 31, 2022

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Website URL
https://drivecrypto.io/en/

Domain Registry
https://www.godaddy.com

Domain Expiration
Expires on 2023-04-21

Technical SEO Test
Passed

Security Test
Passed. SSL certificate present

Design
Nice color scheme, appropriate graphics and overall layout.

Content
The information helps new investors understand what the product does right away. No grammar mistakes found.
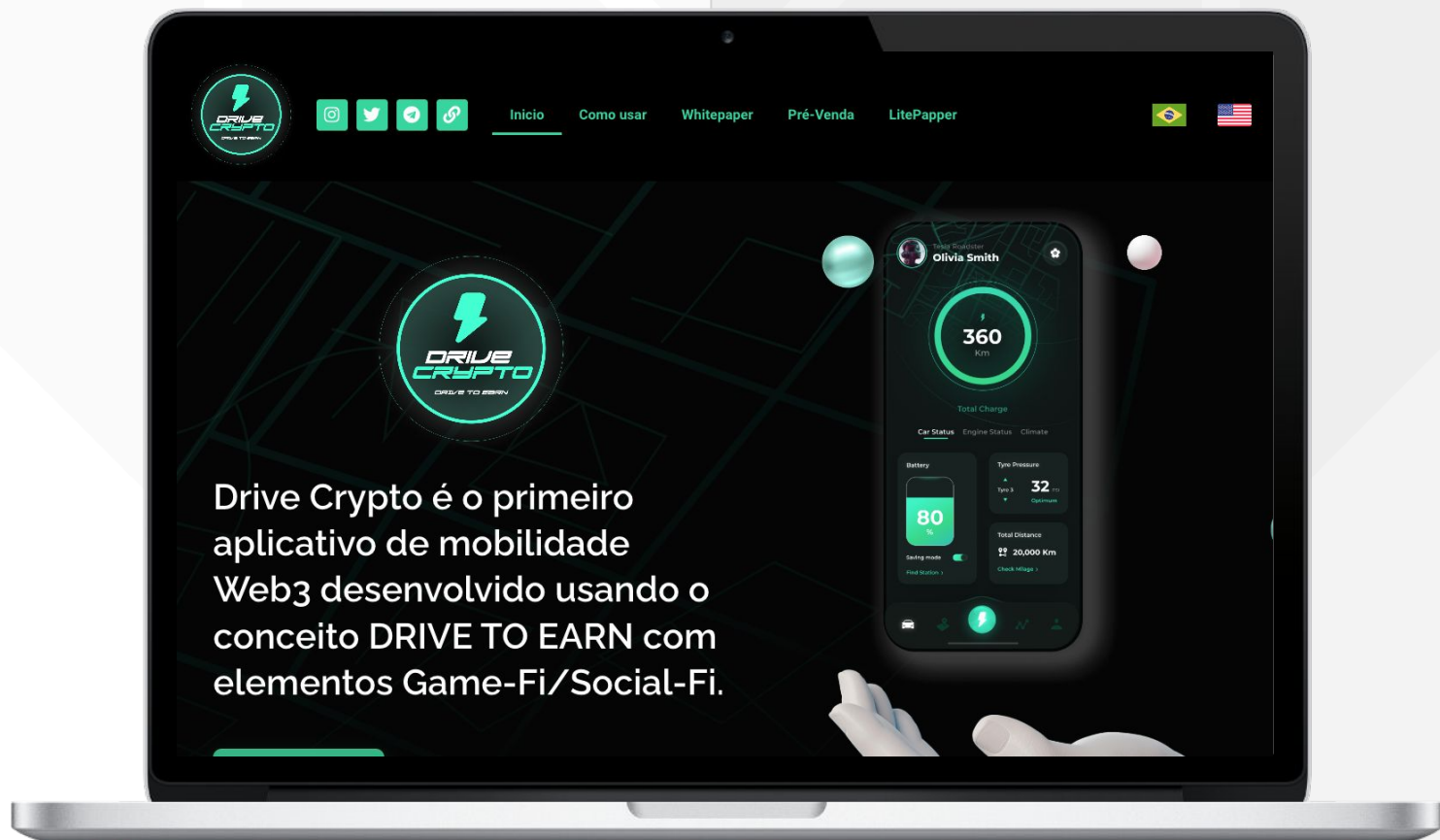
Whitepaper
Well written, explanatory

Roadmap
Yes, goals set at 4 phases. Not available in english. ⚠️

Mobile-friendly?
Yes

Drive Crypto é o primeiro aplicativo de mobilidade Web3 desenvolvido usando o conceito DRIVE TO EARN com elementos Game-Fi/Social-Fi.
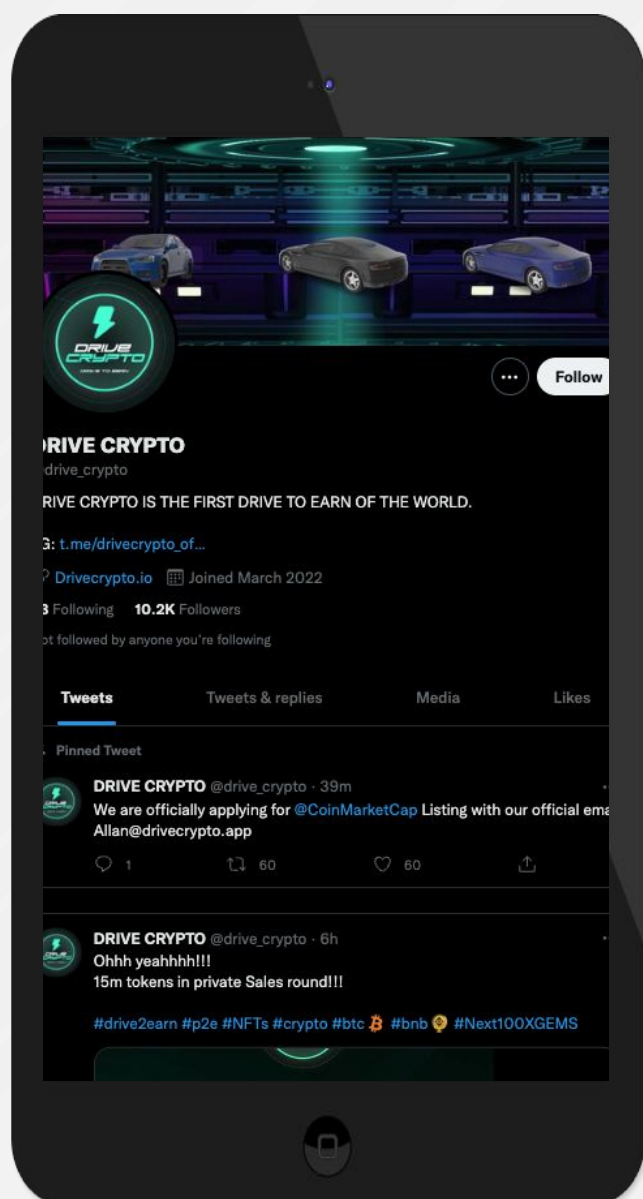
drivecrypto.io

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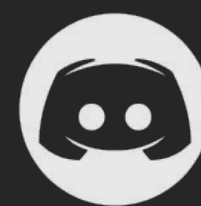# SOCIAL MEDIA
& ONLINE PRESENCE

ANALYSIS

They have a very active social media presence with quick responses from the team.

Twitter

https://twitter.com/drive_crypto

- 19 200 followers
- Very active
- Few posts per day

Discord

- Not available

Telegram

https://t.me/drivecrypto_official

- 43 310 members
- Few Active members ⚠️
- Active mods

Medium

- Not available

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CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.